

Curriculum Vitae - Amy Anne Erickson, Ph. D.
Associate Professor, Biological Sciences, LSUS

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Education:

- 1996-2003 Ph. D. in Biology, University of South Florida (Advisors: Susan S. Bell, Clinton J. Dawes), “Associational resistance from and susceptibility to herbivory by the mangrove tree crab, *Aratus pisonii*, on the red mangrove, *Rhizophora mangle* when in the presence of the black mangrove, *Avicennia germinans*, and the white mangrove, *Laguncularia racemosa*”
- 1994-1997 M. S. in General Experimental Psychology, Florida State University (Advisor: Richard L. Hyson), “Characterization of the GABA_A receptor in the chick brainstem auditory system”
- 1990-1994 B. S. in Biology, Georgetown University (Advisor: Philip Sze), Senior Thesis: “The effects of herbivory on macroalgae: an amphipod preference feeding study”

Professional Experience:

- 2019-2021 Graduate Director, Master in Biological Sciences Program, LSUS
- 2013- Associate Professor, Dept. of Biological Sciences, Louisiana State University Shreveport, (12-15 hr teaching load/semester); Granted tenure
- 2012-2016 Member, Science & Education Advisory Council, LUMCON
- 2007-2013 Assistant Professor, Dept. of Biological Sciences, Louisiana State University Shreveport, (9-12 hr teaching load/semester)
- 2006- Research Associate/Collaborator, Smithsonian Institution
- 2006-2007 Visiting Assistant Professor, Dept. of Integrative Biology, University of South Florida (6 hr teaching load/semester)
- 2006 Postdoctoral Fellow, Smithsonian Marine Station, FL (Advisor: Valerie J. Paul), “*Lyngbya* blooms in the Indian River Lagoon”
- 2004-2005 Caribbean Coral Reef Ecosystems Postdoctoral Fellow, Smithsonian Marine Station, FL (Advisors: Valerie J. Paul, Ilka C. Feller), “Are feeding preferences of the mangrove tree crab *Aratus pisonii* chemically determined?”
- 2003-2004 Postdoctoral Fellow, Smithsonian Marine Station, FL (Advisor: Valerie J. Paul), “Examination of whether coral reef herbivore feeding preferences are chemically based”
- 2002-2003 Adjunct Instructor, Dept. of Biology, University of Tampa

- 1996-2003 Instructor & Graduate Teaching Assistant, Dept. of Biology, University of South Florida
- 1994-1996 Graduate Teaching & Departmental Assistant, Dept. of Psychology, Florida State University
- 1994 Undergraduate Teaching Assistant, Dept. of Biology, Georgetown University

Submissions and Publications:

- Capper, A., Erickson, A.A., Ritson-Williams, R., Becerro, M.A., Arthur, K.A., and Paul, V.J. (2016). Palatability and chemical defences of benthic cyanobacteria to a suite of herbivores. *J. Exp. Mar. Biol. Ecol.* 474:101-108.
- Erickson, A.A., Bell, S.S., and Dawes, C.J. (2012). Associational resistance protects mangrove leaves from crab herbivory. *Acta Oec.* 41:46-57.
- Erickson, A.A., Feller, I.C., Paul, V.J., Kwiatkowski, L.M., and Lee, W. (2008). Selection of an omnivorous diet by the mangrove tree crab *Aratus pisonii*. *J. Sea Res.* 59:59-69.
- Erickson, A.A., Paul, V. J., Van Alstyne, K.L., and Kwiatkowski, L.M. (2006). Palatability of green algae that may employ different types of activated chemical defenses. *J. Chem. Ecol.* 32:1883-1895.
- Ellis, William L., Bowles, Justin W., Erickson, Amy A., Stafford, Nate, Bell, Susan S., and Thomas, Melanie. (2006). Alteration of the chemical composition of mangrove (*Laguncularia racemosa*) leaf litter fall by freeze damage. *Estuar. Coast. Shelf. Sci.* 68:363-371.
- Erickson, A.A., Bell, S.S., and Dawes, C.J. (2004). Does mangrove leaf chemistry help explain crab herbivory patterns? *Biotropica* 36(3):333-343.
- Erickson, A.A., Saltis, M., Bell, S.S., and Dawes, C.J. (2003). Herbivore feeding preferences as measured by leaf damage and stomatal ingestion: a mangrove crab example. *J. Exp. Mar. Biol. Ecol.* 289(1):123-138.

In preparation:

- Burks, E., Stratton, C. and Erickson, A.A. (in preparation). The effect of freshwater acidification on freshwater clams.
- Sanson, W., Burden, B., and Erickson, A.A. (in preparation). Anti-microbial effects of *Salvinia molesta*.
- Erickson, A.A., Paul, V.J., Kwiatkowski, L.M., and Becerro, M.A. (in preparation). Sea urchin species vary in their susceptibility to algal chemical defenses.
- Erickson, A.A., Bell, S.S., and Dawes, C.J. (in preparation). Influence of mangrove species associations on herbivory by mangrove tree crabs.
- Erickson, A.A., Feller, I.C., Paul, V.J., Kwiatkowski, L.M., West, L., and Trejo, P. (in preparation). The impact of leaf age and pre-existing crab damage on feeding preferences by the mangrove tree crab *Aratus pisonii*.
- Erickson, A.A., Feller, I.C., Paul, V.J., Kwiatkowski, L.M., Lee, W. (in preparation). Chemical mediation of feeding preferences for the mangrove tree crab *Aratus pisonii*.
- Erickson, A.A., Parsons, K., Feller, I.C., and Lee, W. (in preparation). Characterization of *Aratus pisonii* populations in Indian River Lagoon mangrove impoundments post Hurricanes Frances and Jeanne.
- Erickson, A.A., Sargeant, B., Holstein, H., Lincoln, A., and Bell, S.S. (data analysis). Time budget analysis of the mangrove tree crab *Aratus pisonii*.

Grants, Honors, and Awards:

- 2021 LSUS Tech Fee, Erickson, A. Supplying biology labs with compound light microscopes. Awarded: \$34,500
- 2021 BoRSF Departmental Enhancement Grant, Erickson, A. (PI), Siska, P., Chen, X., Joiner, G., Maguigan, M., Providing GIS training to the LSUS community and Northwest Louisiana. Awarded: \$61,400
- 2021 LSUS Faculty Research and Development Grant, Erickson, A., Supplies for project on environmental DNA. Awarded: \$5,000
- 2020 LSUS Tech Fee, Erickson, A. Resources for environmental DNA research. Awarded: \$2,870
- 2020 LSUS Tech Fee, Mast J., (Advisor: Erickson, A.A.), Supplying biology labs with stereomicroscopes. Awarded: \$16,500
- 2020 LSUS Faculty Research and Development Grant, Erickson, A., Supplies for project on environmental DNA. Awarded: \$5,000
- 2020 LSUS Faculty Research and Development Grant, Erickson, A., Travel for environmental DNA field studies. Awarded: \$1,500
- 2020 LSUS Faculty Research and Development Grant, Erickson, A., Supplies for project on acidification of freshwater and marine ecosystems. Awarded: \$1,500
- 2019 LSUS Tech Fee, Erickson, A., Chen, X., Lewis, J. Resources for geographic information science. Awarded: \$21,990
- 2019 LSUS Tech Fee, Mast J., (Advisor: Erickson, A.A.), Laptop chargers for use in the classroom. Awarded: \$1,890
- 2019 LSUS Faculty Research and Development Grant, Erickson, A., Funding for research assistant for BoRSF grant. Awarded: \$5,000
- 2018 LSUS Research Sabbatical: Fall 2018
- 2018 LSUS Tech Fee, Erickson, A., Preparing plant samples for CHN analysis, Awarded: \$5000
- 2018 BoRSF Research Competitiveness Subprogram Grant – One-year, Erickson, A., Allelopathic effects of common aquatic plants on the invasive water fern *Salvinia molesta*. Awarded: \$15,000
- 2017 LSUS Tech Fee, Garcia S., (Advisor: Erickson, A.A.), Video cameras for use in the classroom and research. Awarded: \$5,244
- 2017 LSUS Faculty Research and Development Grant, Erickson, A., Generating plant extracts for chemical ecology experiments for use in research and in the classroom. Awarded: \$1000.
- 2017 Campus Federal's Teaching Enhancement Fund, Erickson, A., Attending Southern Section-American Society of Plant Biologists Meeting. Awarded: \$200
- 2016 LSUS Faculty Research and Development Grant, Erickson, A., Presentation of Scientific Research at the 4th Mangrove Macrobenthos Conference. Awarded: \$600.
- 2016 BoRSF Undergraduate Enhancement Grant, Erickson, A. (PI), Burden, B. Buzgo, M., Gossett, D., Enhancement of Environmental Science Equipment at LSUS. Awarded: \$62,800
- 2015 Campus Federal's Teaching Enhancement Fund, Erickson, A., Attending Teaching Online Conference, Awarded: \$250

2014- Harman and Renae Chandler Endowed Professorship for the Master of Biological Science Program

2014 LSUS Tech Fee, Erickson, A., Supplying Biology Laboratories with a Stereomicroscope with an Integrated Camera System, Awarded: \$2,600

2014 LSUS Tech Fee, Erickson, A., Supplying Biology Laboratories with Van Dorn Alpha Jars for Water Sampling, Awarded: \$1042.28

2013 Campus Federal's Teaching Enhancement Fund, Erickson, A., Attending Science Online: Oceans Conference, Awarded: \$300

2013 LSUS Tech Fee, Erickson, A., Supplying Biology Laboratories with a Stereomicroscope with an Integrated Camera System, Awarded: \$2500

2013 LSUS Tech Fee, Erickson, A., Supplying Biology Laboratories with Van Dorn Alpha Jars for Water Sampling, Awarded: \$984

2012 LSUS 2012 Tech Fee, Erickson, A., Supplying Biology Laboratories with Stereomicroscopes & Integrated Camera Systems, Awarded: \$14,727

2012 BoRSF Undergraduate Enhancement Grant, Erickson, A., Banks, S. Gossett, D., Lucas, C., Enhancement of Analytical Skills in Chemical Ecology. Awarded: \$37,824

2011 LSUS Tech Fee, Erickson, A.A., Supplying Biology laboratories with microscopes. Awarded \$22,500

2010 NSF-MRI, Lucas, C., Gossett, D., Banks, S., Williams-Hart, T., Erickson, A. (Co-PI), Acquisition of a High Performance Liquid Chromatography (HPLC) System for Research, Research Training and Education. Awarded: \$152,692

2010 LSUS Tech Fee, Morlock, T., and Key, M., (Advisor: Erickson, A.A.), Increasing drying capacity of the lyophilizer. Awarded: \$2,202

2010 LSUS Tech Fee, Erickson, A.A., and Banks, S.W., Supplying Biology laboratories with balances. Awarded: \$4,810

2010 BoRSF Traditional Enhancement Grant, Erickson, A.A., To the sea and back: Building a bridge between Louisiana State University Shreveport (LSUS) and Louisiana Universities Marine Consortium (LUMCON). Awarded: \$5,465

2009 LA EPSCoR Pfund Grant, Erickson, A.A., Effect of nutrient fertilization on nutritional and defensive chemistry of mangrove leaves in Florida and Belize. Awarded: \$10,000 (plus \$2,378 as in-cash match)

2008 LSUS Faculty Development Grant, Erickson, A.A., Request for travel to the Benthic Ecology Meeting. Awarded: \$500

2008 LSUS Faculty Research Grant, How mangrove leaf chemistry influences feeding by the mangrove tree crab *Aratus pisonii*. Awarded: \$597

2007 University of South Florida Faculty Research and Development Grant, The role of chemistry in feeding by marine herbivores. Awarded: \$800

2006-2007 Caribbean Coral Reef Ecosystems Grant, Erickson, A.A., Paul, V.J., and Feller, I.C., Effect of fertilization on nutritional and defensive chemistry of mangrove leaves. Awarded: \$1000

2003 Student Travel Award, Estuarine Research Federation

2001 Tharpe Summer Fellowship in Biology, University of South Florida

2000 Best Student Presenter, Southeastern Estuarine Research Society

2000 Phi Kappa Phi Chapter Fellowship (126), University of South Florida

2000-2001 Tharpe Fellowship in Biology, University of South Florida

- 1998-2001 Biology Travel Fund, University of South Florida
 1997 Nomination-Provost's Award in Outstanding Teaching, University of South Florida
 1994 Dean's List, Georgetown University

Teaching Experience:

- 2013- Associate Professor, Dept. of Biological Sciences, Louisiana State University Shreveport: same courses as below; Graduate Biostatistics (F2F & online), Freshman Seminar, Invasive Species, Top-down & Bottom-up Effects, Marine Feeding Ecology Lab, *Salvinia*, Field and Organismal Discussion Group; Total preps: 20
- 2007-2013 Assistant Professor, Dept. of Biological Sciences, Louisiana State University Shreveport: General Biology (non-science majors; F2F & online), Marine Environment (non-science majors; online), Biological Inquiry (F2F & online), Principles of Ecology & Lab (F2F & online), Aquatic Biology (F2F & online) & Lab, Marine Biology (F2F & online) & Lab, Chemical Ecology (F2F & online) & Lab, Marine Feeding Ecology, Applied Coastal Ecology (online); Team teach for 1 wk/sem: Biology Principles I Lab, Research Methods, Medical Seminar. Total preps: 13
- 2006-2007 Visiting Assistant Professor, Dept. of Integrative Biology, University of South Florida: Principles of Biology (non-science majors), Marine Biology (non-science majors; online), Marine Biology (for majors), Advanced Marine Biology, 2006 Invited Lecture, Semester at Sea, Florida Atlantic University/HBOI: Algal chemical defenses. Total preps: 4
- 2003 Mangrove Ecology Scientist, Electronic field trip, Smithsonian Environmental Research Center: Where the Land and Sea Intertwine
- 2002-2003 Adjunct Instructor, Dept. of Biology, University of Tampa: Environmental Science
- 2002-2003 Lecture Assistant, Dept. of Biology, University of South Florida: Principles of Ecology
- 2000-2002 Instructor, Dept. of Biology, University of South Florida: Environment
- 1997-1998 Science Instructor, Fledge-ling Camp of Geology and Ecology (NSF), University of South Florida
- 1996-1999 Teaching Assistant, Dept. of Biology, University of South Florida: Laboratories for Principles of Ecology (Head TA), Introductory Biology 1 & 2
- 1996 Teaching Assistant, Dept. of Psychology, Florida State University: Sensation & Perception Laboratory
- 1995 Teaching Assistant, Program in Medical Sciences, Florida State University: Neuroanatomy of the Human Brain Laboratory
- 1994 Teaching Assistant, Dept. of Biology, Georgetown University: Introductory Biology 2 Laboratory

Contributed Papers:

- 2015 Southeastern Estuarine Research Society Meeting, Jacksonville, FL: Erickson, A.A., Bell, S.S., and Dawes, C.J., Associational resistance protects mangrove leaves from crab herbivory.
- 2006 Ecological Society of America, Memphis, TN: Erickson, A.A., Feller, I.C., Paul, V.J., and Kwiatkowski, L.M., Chemical mediation of feeding preferences for the mangrove tree crab *Aratus pisonii*.
- 2006 Meeting of the Mangrove Macrobenthos II, Coolangata, Australia: Erickson, A.A., Feller, I.C., Paul, V.J., and Kwiatkowski, L.M., Chemical mediation of feeding preferences for the mangrove tree crab *Aratus pisonii*.
- 2006 Southeastern Estuarine Research Society Meeting, St. Augustine, FL: Erickson, A.A., Paul, V.J., Van Alstyne, K.L., and Kwiatkowski, L.M., Palatability of green algae that employ different types of activated chemical defenses.
- 2004 Ecological Society of America, Portland, OR: Erickson, Amy A., Bell, Susan S., and Dawes, Clinton, J., Relating mangrove herbivore preference and consumption to leaf chemistry and structure.
- 2004 Association of Tropical Biology and Conservation, Miami, FL: Erickson, Amy A., Bell, Susan S., and Dawes, Clinton, J., Relating mangrove herbivore preference and consumption to leaf chemistry and structure.
- 2002 Benthic Ecology Meeting, Orlando, FL: Erickson, Amy A., Saltis, M., Bell, Susan S., and Dawes, Clinton J., Dietary preference for red mangrove leaves as measured by leaf damage and crab gut contents.
- 2000 Florida Ecological and Evolutionary Symposium, Archbold, FL: Brooks, R.A., Bell, S.S., Ellis, W.L., Erickson, A.A., Jacobson, S.B., and Rizzuto, N.V., Ecological engineers: revisiting the past and evaluating the future.
- 2000 Southeastern Estuarine Research Society, Tampa, FL: Erickson, Amy A., Bell, Susan S., and Dawes, Clinton J., Crab herbivory on the red mangrove *Rhizophora mangle* L. when found in pure stands versus when in association with the black mangrove *Avicennia germinans* (L.) Stearn and the white mangrove *Laguncularia racemosa* (L.) Gaertn.
- 2000 Benthic Ecology Meeting, Wilmington, NC: Erickson, Amy A., Bell, Susan S., and Dawes, Clinton J., Crab herbivory on the red mangrove *Rhizophora mangle* L. when found in pure stands versus when in association with the black mangrove *Avicennia germinans* (L.) Stearn and the white mangrove *Laguncularia racemosa* (L.) Gaertn.
- 2000 Benthic Ecology Meeting, Wilmington, NC: Brooks, R.A., Bell, S.S., Ellis, W.L., Erickson, A.A., Jacobson, S.B., and Rizzuto, N.V., Ecological engineers: revisiting the past and evaluating the future.

Contributed Posters (*presenter if not first author):

- 2019 Entomological Society of America, St. Louis, MO: Burden, B., Sanson Dobbins Fields, W., Erickson, A., Antimicrobial properties of *Salvinia molesta* on common bacteria.
- 2019 American Society of Plant Biologists, San Jose, CA: Erickson, A., Zittrauer, C., Mast, J., Mullins, S., Dean, E., Miller, R., Owens, K., De Soto, A. Controlling *Salvinia molesta* through allelopathy.

- 2019 American Society of Plant Biologists, San Jose, CA: Burden, B., Sanson Dobbins Fields, W., Erickson, A. *, Antimicrobial properties of *Salvinia molesta* on common bacteria.
- 2019 American Society of Plant Biologists, San Jose, CA: Mast, J., Mullins, S., Zittrauer, C., Dean, E., Erickson, A., Controlling *Salvinia molesta* through allelopathy.
- 2019 American Society of Plant Biologists, San Jose, CA: Mast, J., Erickson, A., Burden, B., Invertebrate diversity in *Salvinia molesta*.
- 2019 4th Annual LSUS Student Scholars Forum, Shreveport, LA: Mast, J., Mullins, S., Zittrauer, C., Dean, E., Erickson, A., Controlling *Salvinia molesta* through allelopathy.
- 2019 4th Annual LSUS Student Scholars Forum, Shreveport, LA: Mast, J., Erickson, A., Burden, B., Invertebrate diversity in *Salvinia molesta*.
- 2019 4th Annual LSUS Student Scholars Forum, Shreveport, LA: Zittrauer, C., Mast, J., Mullins, S., Dean, E., Miller, R., Owens, K., De Soto, A., Erickson, A., Controlling *Salvinia molesta* through allelopathy.
- 2019 4th Annual LSUS Student Scholars Forum, Shreveport, LA: Garcia, S., Bates, A., Black, B., Graham, L., Greer, K., Mast, J., Erickson, A., Stingray feeding preferences in captivity.
- 2019 4th Annual LSUS Student Scholars Forum, Shreveport, LA: Garcia, S., Bates, B., Black, B., Graham, L., Greer, K., Mast, J., Erickson, A., Keystone Predators in the Rocky Intertidal.
- 2018 47th Annual Benthic Ecology Meeting, Corpus Christi, TX: Mast, J., Greer, S., Erickson, A., A proposed study to document bioaccumulation in sea urchins in the Gulf of Mexico.
- 2017 Southern Section-American Society of Plant Biologists, Orlando, FL: Whorton, S., Mast, J., Kong, K., Austill, B., Khan, B., Erickson*, A., Possible suppression of *Salvinia molesta* by allelopathy of two waterlilies, *Nymphaea mexicana* and *Nymphaea odorata*.
- 2017 Southern Section-American Society of Plant Biologists, Orlando, FL: Mast, J., Whorton, S., Garcia, S., Demarest, A., Erickson, A., Potential allelopathic effects of *Eichhornia crassipes* and *Lemna gibba* on the invasive water fern *Salvinia molesta*.
- 2017 Southern Section-American Society of Plant Biologists, Orlando, FL: Garcia, S., Erickson, A., *Littoraria irrorata* preference for salt marsh habitat.
- 2017 2nd Annual LSUS Student Scholars Forum, Shreveport, LA: Garcia, S., Erickson, A., *Littoraria irrorata* preference for salt marsh habitat.
- 2016 Mangrove Macrobenthos Meeting IV, St. Augustine, FL: Erickson, A.A., Paul, V.J., Feller, I.C., Lee, W., Kwiatkowski, L.M., West, L., Trejo, P., Mangrove extracts influence feeding activity by mangrove tree crabs in Florida and Belize.
- 2016 1st Annual LSUS Student Scholars Forum, Shreveport, LA: Al-wadi, A., Zedian, K., Miller, D., Bardwell, C., Candler, M., Mast*, J., Erickson, A., How distance to water affects insect diversity.
- 2016 1st Annual LSUS Student Scholars Forum, Shreveport, LA: Hood, B., Langston, D., Fuller, K., Patterson*, C., Keyvan, G., Ali, N., Brown, R., Crooks, S., Mast, J., Erickson, A., Insect diversity measured across habitat type.

- 2016 1st Annual LSU Student Scholars Forum, Shreveport, LA: Anderson, A., Alvarez, M., Gomez, T., Jordan, C., Wren, K., Rao, K., Streets, C., Williamson, K., Mast*, J., Erickson, A., Influence of Flooding on Insect Diversity in Northwest Louisiana.
- 2016 1st Annual LSU Student Scholars Forum, Shreveport, LA: Whorton*, S., Stinson, D., McKay, L., Simmons, A., Ali, H., Mast, J., Erickson, A., The relationship between insect diversity, temperature, and humidity.
- 2015 Coastal & Estuarine Research Federation, Portland, OR: Erickson, A., Lee, W, Trends in habitat use by the mangrove tree crab *Aratus pisonii*.
- 2015 LSU School of Mathematics and Science Student Research Forum, Shreveport, LA: Hogrefe, K., Wells, D., Russell, K., Spataro, K., Lohman, M., Farooqui*, F., Abubakar*, T., Mast, J., Erickson, A., The relationship between fire ant nest density and environmental factors.
- 2015 LSU School of Mathematics and Science Student Research Forum, Shreveport, LA: Cockerham, E., Vagrin, M., Schopp, J., Abubakar, T., Farooqui, F., Vargas, B., Mast, J., Erickson, A., Spatial dispersion of fire ant (*Solenopsis invicta*) nests.
- 2015 LSU School of Mathematics and Science Student Research Forum, Shreveport, LA: Turner, T., Adegboyega, A., Yousuf*, Q., Williams, T., Mast, J., Erickson, A., Insect diversity in aquatic habitats.
- 2015 LSU School of Mathematics and Science Student Research Forum, Shreveport, LA: McFarland, D., Cannon, S., Farley, M., Gladney, S., Whorton, S., Mast, J., Erickson, A., How water depth & abiotic factors relate to plankton density & diversity.
- 2015 Southern Section-American Society of Plant Biologists, Dauphin Island, AL: Erickson, A.A., Bell, S.S., and Dawes, C.J., presenters: Harris, S.*, Greene, S.*, Associational resistance protects mangrove leaves from crab herbivory.
- 2015 Southern Section-American Society of Plant Biologists, Dauphin Island, AL: Harris, S., Greene, S., Murcia, H., Mast, J., Whidden, L., Cartee, G., Folkerts, M., Erickson, A.A., The Determination of Herbivory on *Croton capitatus* at C. Bickham Dickson Park Shreveport, Louisiana.
- 2015 Southern Section-American Society of Plant Biologists, Dauphin Island, AL: Folkerts, M., Greene, S.*, Harris, S., Mast, J., Fox, J., Jones, A., Erickson, A.A., Characterization of salt marsh habitat surrounding LUMCON's DeFelice Marine Center in Cocodrie, Louisiana.
- 2015 Southeastern Estuarine Research Society Meeting, Jacksonville, FL: Edwards, M.R., Lincoln, A., Holstein, H., Erickson, A.A., Behavior of the mangrove tree crab during its active season.
- 2014 LSU School of Mathematics and Science Student Research Forum, Shreveport, LA: Harris, S., Greene, S., Murcia, H., Mast, J., Whidden, L., Cartee, G., Folkerts, M., Erickson, A.A., The Determination of Herbivory on *Croton capitatus* at C. Bickham Dickson Park Shreveport, Louisiana.
- 2014 LSU School of Mathematics and Science Student Research Forum, Shreveport, LA: Foster, D., Juell, E., Merry, A., Nguyen, B., Wells, C., Wheeler, M., Folkerts, M., Mast, J.*, Erickson, A.A., The Impact of Human Population Density on Bird Diversity in Shreveport, Louisiana.

- 2014 LSUS School of Mathematics and Science Student Research Forum, Shreveport, LA: Hibbs, B., Jones, K., Ashton, S., Falade, I., Shihab, I., Folkerts, M.*, Erickson, A.A., How does bird diversity differ under variation in land use?
- 2014 LSUS School of Mathematics and Science Student Research Forum, Shreveport, LA: Shams, S., Harris, H., Simmons, G., Nyajro, E., Folkerts, M., Erickson, A.A., The relationship between native and invasive bird species in Shreveport, Louisiana.
- 2014 LSUS School of Mathematics and Science Student Research Forum, Shreveport, LA: Barmes, A., Hughes, M., Tanga, S., Ferrell, D., Moore, R., Hubbard, G., Shams, S.*, Folkerts, M., Erickson, A.A., The influence of vegetation and aquatic habitat on bird diversity.
- 2014 LSUS School of Mathematics and Science Student Research Forum, Shreveport, LA: Folkerts, M., Harris, S., Mast, J., Fox, J., Jones, A., Erickson, A.A., Characterization of salt marsh habitat surrounding LUMCON's DeFelice Marine Center in Cocodrie, Louisiana.
- 2013 BOTANY 2013, New Orleans, LA: Erickson, A.A., Feller, I.C., Paul, V.J., Kwiatkowski, L.M., Lee, W., Selection of an omnivorous diet by the mangrove tree crab *Aratus pisonii* in laboratory experiments.
- 2013 BOTANY 2013, New Orleans, LA: Erickson, A.A., Paul, V.J., Kwiatkowski, L.M., Becerro, M., Rhizophytic green algal extracts differentially affect feeding by sea urchin species.
- 2013 LSUS School of Mathematics and Science Student Research Forum, Shreveport, LA: Folkerts, M., Mast, J., Greene, S., Lincoln, A., Erickson, A.A., Do zooplankton perform diel vertical migrations in Old River Lake?
- 2013 LSUS School of Mathematics and Science Student Research Forum, Shreveport, LA: Greene, S., Folkerts, M., Mast, J., Lincoln, A., Erickson, A.A., Lakes vs. Rivers: Do they differ in zooplankton density and diversity?
- 2013 LSUS School of Mathematics and Science Student Research Forum, Shreveport, LA: Mast, J., Greene, S., Folkerts, M., Lincoln, A., Erickson, A.A., The relationship between abiotic factors and zooplankton density in aquatic ecosystems.
- 2013 Southeastern Estuarine Research Society (SEERS), Charleston, SC: Erickson, A.A., Feller, I.C., Paul, V.J., Kwiatkowski, L.M., Lee, W., Selection of an omnivorous diet by the mangrove tree crab *Aratus pisonii* in laboratory experiments.
- 2013 Southern Section - American Society of Plant Biologists (SS-ASPB), Little Rock, AR: Erickson, A.A., Paul, V.J., Kwiatkowski, L.M., Becerro, M., Rhizophytic green algal extracts differentially affect feeding by sea urchin species.
- 2012 LSUS School of Mathematics and Science Student Research Forum, Shreveport, LA: Faith, C., Chaniyara, R., Erickson, A., Do nutrient additions influence herbivory on mangrove leaves?
- 2011 LSUS Student Research Forum, Shreveport, LA: Edwards, M.R., Lincoln, A., Holstein, H., Erickson, A.A., Behavior of the mangrove tree crab during its active season.
- 2010 LSUS Student Research Forum, Shreveport, LA: Morlock, T., Erickson, A.A., Proposed methods for examining the effects of nutrient fertilization on nutritional and defensive chemistry and herbivore feeding behavior in mangrove forests.

- 2010 39th Annual Benthic Ecology Meeting, Wilmington, NC: Erickson, A.A., Feller, I.C., Paul, V.J., Kwiatkowski, L.M., West, L., Trejo, P., Red mangrove leaves improve with age like fine wine: the relationship between crab feeding, leaf age, and pre-existing herbivore damage.
- 2009 38th Annual Benthic Ecology Meeting, Corpus Christi, TX: Erickson, A.A., Lee, W., Hurricane impact on mangrove tree crab populations in Florida.
- 2007 29th Annual Southeastern Phycological Colloquy, Dauphin Island, AL: Erickson, A.A., Paul, V.J., Becerro, M., Duran, S., and Kwiatkowski, L.M., The role of chemical defense in the palatability of congeneric, rhizophytic, green algae.
- 2005 27th Annual Southeastern Phycological Colloquy, Fort Pierce, FL: Erickson, A.A., Paul, V.J., Van Alstyne, K.L., and Kwiatkowski, L.M., Palatability of green algae that employ different types of activated chemical defenses.
- 2005 27th Annual Southeastern Phycological Colloquy, Fort Pierce, FL: Paul, Valerie J., Ritson-Williams, Raphael, Erickson, Amy A., and Becerro, Mikel, Susceptibility of marine macroalgae and cyanobacteria to herbivorous fishes and the sea urchin *Diadema antillarum*.
- 2005 27th Annual Southeastern Phycological Colloquy, Fort Pierce, FL: Paul, Valerie J., Becerro, Mikel, Bonito, Victor, Ritson-Williams, Raphael, and Erickson, Amy, Impacts of benthic marine cyanobacteria on coral reefs: ecology and toxicity.
- 2005 27th Annual Southeastern Phycological Colloquy, Fort Pierce, FL: Puglisi, Melany, Ross, Cliff, Erickson, Amy, and Paul, Valerie, Chemical defenses of the marine cyanobacterium *Lyngbya cf. confervoides*.
- 2004 The Center of Excellence in Biomedical and Marine Biotechnology Meeting, Boca Raton, FL: Paul, Valerie J., Becerro, Mikel, Erickson, Amy, Duran, Sandra, and Ritson-Williams, Raphael, Recent Research from the Smithsonian Marine Station at Fort Pierce.
- 2004 Tenth International Coral Reef Symposium, Okinawa, Japan: Paul, Valerie J., Ritson-Williams, Raphael, Erickson, Amy A., and Becerro, Mikel, Susceptibility of marine macroalgae and cyanobacteria to herbivorous fishes and the sea urchin *Diadema antillarum*.
- 2004 Tenth International Coral Reef Symposium, Okinawa, Japan: Paul, Valerie J., Becerro, Mikel, Bonito, Victor, Ritson-Williams, Raphael, and Erickson, Amy, Impacts of benthic marine cyanobacteria on coral reefs: ecology and toxicity.
- 2003 Twin Cays Mangrove Ecosystem, Belize: Biodiversity, Geological History and Two Decades of Change, Fort Pierce, FL: Erickson, Amy A., Bell, Susan S., and Dawes, Clinton J., Relating mangrove herbivore preference and consumption to leaf chemistry and structure.
- 2003 Estuarine Research Federation, Seattle, WA: Erickson, Amy A., Bell, Susan S., and Dawes, Clinton J., Are similar conclusions found when measuring herbivory in various ways?: Implications for understanding ecology and addressing management issues.

- 2003 Benthic Ecology Meeting, Groton, CT: Erickson, Amy A., Bell, Susan S., and Dawes, Clinton J., Do different measures of herbivory lead to similar conclusions?
- 2001 Estuarine Research Federation, St. Petersburg, FL: Erickson, Amy A., Saltis, Mark, Bell, Susan S., and Dawes, Clinton J., Dietary preference for red mangrove leaves as measured by leaf damage and crab gut contents.
- 2001 Benthic Ecology Meeting, Durham, NH: Erickson, Amy A., Saltis, Mark, Bell, Susan S., and Dawes, Clinton J., Determining diet preference for mangrove species using leaf stomata in crab gut contents.
- 1999 Ecological Society of America, Spokane, WA: Erickson, Amy A., Bell, Susan S., and Dawes, Clinton J., Crab herbivory on the red mangrove *Rhizophora mangle* L. when found in pure stands versus when in association with the black mangrove *Avicennia germinans* L.
- 1999 Benthic Ecology Meeting, Baton Rouge, LA: Erickson, Amy A., Crab herbivory in mixed versus pure stands of the red mangrove *Rhizophora mangle* L.

Invited talks and other presentations:

- 2020 UC Davis Pre-Health Conference: Panelist on Health science MS & post-bacc programs
- 2020 *Salvinia* working group: LSUS Giant *Salvinia* control research teamworking group; Erickson, A., Mast, J.
- 2019 LSUS Faculty research showcase: Control of *Salvinia molesta* and eDNA
- 2017- Medical Seminar, LSUS: Mangroves in Medicine
- 2015 College of Arts and Sciences Lecture Series, LSUS: Associational defense protects mangroves from crab herbivory
- 2014 College of Arts and Sciences Lecture Series, LSUS: Palatability of green algae that employ different types of chemical defenses
- 2014 LSU Day: To the sea and back: Marine Biology at LSUS
- 2013 College of Arts and Sciences Lecture Series, LSUS: Sea urchin species vary in their susceptibility to algal chemical defenses
- 2013 College of Arts and Sciences Lecture Series, LSUS: To the sea and back: Marine Biology at LSUS
- 2012 Louisiana School of Mathematics, Sciences, and the Arts: Marine biology in Northern Louisiana?
- 2007 LSUS: To eat or not to eat? Chemical mediation of feeding preferences for the mangrove tree crab *Aratus pisonii*
- 2006 Smithsonian Marine Station Lecture Series, LSUS: Palatability of green algae that employ different types of chemical defenses
- 2006 Georgia Tech: Community Ecology
- 2004 Smithsonian Marine Station Lecture Series, LSUS: Relating mangrove herbivore preference and consumption to leaf chemistry and structure
- 1998 Science Day at magnet school, Tampa, FL: Mangrove crabs
- 1998 Highschool Biology Honors program: Mangrove crabs

Research Experience:

- 2020- Environmental DNA studies on marine and freshwater species, LSUS
- 2019- Effects of acidification of freshwater organisms, LSUS

- 2019- Invertebrate diversity in *Salvinia molesta*, LSUS
 2018- Effects of *Salvinia molesta* extracts on microbial growth, LSUS
 2016- Allelopathic effects of common aquatic plants on the invasive water fern *Salvinia molesta*, LSUS
 2003- Marine chemical ecology, feeding preference studies, chemical extraction & isolation, Louisiana State University Shreveport, Smithsonian Marine Station, University of South Florida
 1999 Drift algae sampling, Dept. of Biology, University of South Florida
 1998-2003 Mangrove forestry, herbivory, leaf chemistry, & gut content analysis, Dept. of Biology, University of South Florida
 1998 Mangrove forestry of Central and South Florida, Dept. of Biology, University of South Florida
 1997 Seagrass mapping and prop-scar study, Dept. of Biology, University of South Florida
 1996-1997 Morphological, distributional, & chemical studies of rhizophytic green macroalgae, Dept. of Biology, University of South Florida
 1994-1997 Anatomical, histological, & receptor-binding of GABA_A receptors in chick brainstem auditory nuclei, Dept. of Psychology, Florida State University
 1992-1994 Feeding preference studies, Dept. of Biology, Georgetown University
 1992-1994 Behind the Scenes Volunteer, Smithsonian Institution: Everglades Mesocosm Project

Professional Affiliations:

- 2013- American Society of Plant Biologists (National, Southern Section)
 2013-2014 Botanical Society of America
 2013-2017 American Chemical Society (National, LSUS)
 2011-2012 Gulf Estuarine Research Society
 2006-2007 Society of Wetland Scientists
 2004-2007 Association of Tropical Biology and Conservation
 2000-2006 Georgetown University Alumni Admissions Program
 2000-2007, 2010- Phi Kappa Phi Honor Society
 2000- Southeastern Estuarine Research Society
 2000- Coastal and Estuarine Research Federation
 1999- Ecological Society of America

Reviewer:

Acta Oecologica, African Journal of Aquatic Science, Aquatic Biology, Aquatic Botany, Aquatic Ecology, Bulletin of Marine Science, Ecology, Estuaries and Coasts, Estuarine, Coastal, and Shelf Science, EurAsian Journal of BioSciences, Florida Scientist, Hydrobiologia, Journal of Animal Ecology, Journal of the Marine Biological Association of the United Kingdom, Journal of Chemical Ecology, Marine Biology, Marine Ecology Progress Series, Nature Chemical Ecology, Oecologia, Oxford University Press Review Panel, Plos One, Regional Environmental Change, Restoration Ecology, Wetlands Ecology and Management

Service:

- 2021 Member, CERF Niering Award Committee

2021 Member, Chair of Biological Sciences Search Committee
 2021 Member, Biological Sciences Search Committee
 2020 Member, Biology Curriculum revision (with V. Salim)
 2020 Member, Anatomy & Physiology Search Committee
 2020 Member, Graduate Thesis Committee Compensation Taskforce
 2019 Member, Graduate Manual Revision Taskforce
 2019- Member, Graduate Council
 2019-2020 Member, Red River Watershed Management Institute Director Search Committee
 2019-2020 Member, Assessment Committee
 2019 Create permanent *Salvinia molesta* display at the Shreveport Aquarium
 2018- Member and Chair, GIS Committee
 2018-2019 Member, Associate Vice Chancellor/Director of Online Learning Search Committee
 2018 Red River National Wildlife Refuge Celebration
 2018 Minden Maker's Fair
 2018 Shreveport/Bossier Maker Faire
 2018 Create LSUS *Salvinia molesta* brochure
 2018 Member, Cell Biology Search Committee
 2017- Member, Internship Committee
 2017- Member, Library Committee
 2017 Member, Badge Committee
 2017 Member, General Education Working Group
 2016 Member, Online Teaching Policy Committee
 2016-2018 Advisor, Pre-Vet Club
 2016-2017 Chair, Library Committee
 2016-2017 Member, LSUS Strategy Facilitation Team
 2016 Member, College of Arts and Sciences Freshman Advisor Search Committee
 2016 Chair, Director of Online Learning Search Committee
 2015-2017 Member, Retention Committee
 2015-2016 Member, Ad-hoc ADA Guidelines Committee
 2014- Advisor, Biology Club
 2014-2015 Chair, Instruction and Professional Development Committee, LSUS
 2014-2015 Member, Faculty Credentialing Committee
 2014 Member, Grievance Committee
 2014 Member, Ad-hoc Policy Committee
 2013- Chair, LSUS School of Mathematics and Science Scholarship Committee
 2013-2017 LSUS American Chemical Society Chapter
 2013-2014 Member, LSUS SACS-COC Reaffirmation Committee
 2013 Member, 8-week Session Faculty Focus Group
 2012-2014 Creator & Manager, LSUS Ecology & Environmental Science Advising Page
 2012-2014 Secretary, Faculty Senate Executive Committee, LSUS Faculty Senate
 2012 Evaluator, NSF-funded Center for Ocean Science Education Excellence (COSEE) Scientist Case Studies
 2012 Member, Biology Curriculum Review Committee
 2012 Member, Ad-hoc Senate Committee on Revenue Generation
 2012 Member, Senate Ad-hoc Committee: CLEP tests

2012 Senator at Large, Senate Executive Committee, LSUS Faculty Senate
 2011-2015 Advisor, SOAR Advising to Incoming Freshman
 2011-2014 Senator, LSUS Faculty Senate
 2011-2013 Member, LSUS Faculty Progress Report Review Committee
 2011-2012 Member, LSUS Assessment Committee
 2011 Judge, Senior Projects at Airline HS
 2011 Member, Senate Ad-hoc Committee: Development of a Promise Program
 2009-2017 Member, Distance Learning Council
 2009 Member, M.S. in Biological Sciences Applicant Review Committee, Dept. of Biological Sciences, LSUS
 2008-2012 Member, LSUS School of Science Scholarship Committee
 2008-2012 Coordinator, Shreveport-Bossier SCI-NET Research Experiences Post Katrina grant
 2008-2012 Member, Post-Katrina S/B Sci-Net Committee
 2008-2012 Member, M.S. in Environmental Biology Development Committee, Dept. of Biological Sciences, LSUS
 2008 Member, Introductory Biology Curriculum Committee, Dept. of Biological Sciences, LSUS
 2007- Biological Sciences Advisor, LSUS
 2007-2013 Member, Instruction and Professional Development Committee, LSUS
 2000-2006 Interviewer, Georgetown University Alumni Admissions Program
 1998-1999 Undergraduate Advisor, Biology and Pre-Professional Sciences, USF

Thesis students:

Advisor:

High school:

Jonathan Woldie, 2019-2020
 Elijah Burks, 2019-2020
 Sarah Glynn, 2007

Undergraduate:

Mariah Bertrand, 2019-2020 (not completed)
 Lauren Henderson, 2019-2020

Masters:

Emily Dean, 2021-
 Mariah Bertrand, 2020-
 Erin Oostenburg, 2019-
 Katelyn Toms, 2018-
 Shana Mullins, 2018-2019 (not completed)
 Jessica Mast, 2016-

Committee member:

Camila Muller, 2020-
 Wendy Dobbins, 2018
 Dominique Washington, 2014

Kyle Koho, 2007

Undergraduate research mentoring:

1999- Training undergraduate assistants (>150), Biology Dept., USF, Smithsonian Marine Station, LSUS in field and laboratory techniques for mangrove forestry, chemistry, and herbivory